

1
31. (Once Amended) A haulage vehicle comprising in combination: a mechanism for moving a container of material and loading the material onto the haulage vehicle while the vehicle remains stationary; a sensor mounted to the vehicle proximate a region through which the container is moved for retrieving from the container a machine-readable code when the container is moved through the region; and, an electronic processor for collecting the code retrieved by the sensor, time stamping the code and compiling a historical record identifying the container and a time when the material from it was collected.

2
32. (Once Amended) The haulage vehicle as set forth in claim ~~31~~ wherein the mechanism for moving the container extends beyond a frame of the vehicle [for moving] and moves the container by lifting it from a ground surface.

2
Please add the following new claims 38-60:

C 2
-6 38. A method of tracking material collected by a haulage vehicle comprising the steps of: moving a container of material and loading the material onto the vehicle while the vehicle remains stationary; monitoring a region through which the container must move when the material is loaded onto the haulage vehicle; retrieving from the container a machine-readable code when the container is moved through the region; time stamping the code; and, compiling a historical record identifying the container and a time when the material was collected.--

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-- 39. The method of claim 38 including the step of weighing the material loaded onto the haulage vehicle and incorporating a weight of the material into the historical record and correlating it with the code of the container and the time when the material was collected. --

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⁸
-- ~~40~~. The method of claim ~~39~~⁷ wherein the step of weighing the material loaded onto the container includes detecting an incremental increase in a total weight of material carried by the haulage vehicle. --

⁹
-- ~~41~~. The method of claim ~~38~~⁶ including the step of downloading the retrieved code from the vehicle to a fixed and remote location via a wireless link. --

¹⁰
-- ~~42~~. The method of claim ~~41~~⁹ including the step of using the retrieved code at the fixed and remote location to monitor movement of the vehicle. --

¹¹
-- ~~43~~. The method of claim ~~41~~⁹ wherein the step of downloading of the retrieved code includes generating an RF link between the vehicle and the remote and fixed site. --

¹²
-- ~~44~~. A method for tracking bulk material collected by a haulage vehicle comprising the steps of: moving a container of bulk material and loading the material onto the haulage vehicle; monitoring a region through which the container must move when the material is loaded onto the haulage vehicle; retrieving from the container a machine-readable code when the container is moved through the region; time-stamping the retrieved code; and, downloading the code to a remote and fixed site via a wireless link. --

¹³
-- ~~45~~. The method of claim ~~44~~¹² including the step of weighing the material loaded onto the haulage vehicle and downloading the weight of the material with the code for the container. --

²⁰
-- ~~46~~. The method of claim ~~44~~¹² including the step of tracking the location of the haulage vehicle at the remote and fixed site. --

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²¹
-- ~~47~~. The method of claim ²⁰~~46~~ including the step of generating a voice link between the haulage vehicle and the remote and fixed site. --

²²
-- ~~48~~. The method of claim ¹²~~44~~ including the step of archiving the time stamped code. --

¹⁴
-- ~~49~~. The method of claim ¹³~~45~~ including the step of monitoring the inclination of the vehicle. --

¹⁵
-- ~~50~~. The method of claim 49 including correcting any error in the weight of the material created by the inclination of the vehicle. --

¹⁶
-- ~~51~~. The method of claim ¹³~~45~~ including the step of downloading a status of an operating parameter of the vehicle with the retrieved machine-readable code. --

²³
-- ~~52~~. The method of claim ¹²~~44~~ including the steps of identifying an operator of the vehicle; and, recording the identity of the operator. --

²⁴
-- ~~53~~. The method of claim ¹²~~44~~ including the step of monitoring the location of the haulage vehicle by determining a heading of the vehicle and a distance the vehicle has traveled since the machine-readable code was retrieved. --

²⁵
-- ~~54~~. The method of claim ¹²~~44~~ including the step of locating the haulage vehicle by detecting location signals generated by a land or satellite-based positioning system. --

¹⁷
-- ~~55~~. The method of claim ¹³~~45~~ including the step of monitoring the total weight of all material loaded onto the haulage vehicle. --

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¹⁶
-- ~~56~~. The method of claim ¹⁷~~55~~ including the step of determining a weight distribution of the material between fore and aft locations of the vehicle. --

¹⁹
-- ~~57~~. The method of claim ¹⁷~~55~~ wherein the fore and aft locations are proximate front and rear axles of the haulage vehicle. --

²⁶
-- ~~58~~. A method for identifying and recording as an event a change in a load hauled by a vehicle, the method comprising the steps of: interrogating a device ^{associated} ~~associate~~ with the load; retrieving from the device a machine readable code in conjunction with the event; sensing the change in the load and generating data describing the change; time-stamping the data and the machine-readable code; correlating the data and the code; and compiling a historical record of the events for later use. --

²⁷
-- ~~59~~. The method of claim ²⁶~~58~~ including the steps of adding material to the load hauled by the vehicle; ^{and} ~~and~~ successfully retrieving the code only in conjunction with the adding of material to the load. --

²⁸
-- ~~60~~. The method of claim ²⁷~~59~~ including the step of adding material to the load from a container to which the machine-readable code is secured. --

REMARKS

Applicant and his attorney would like to thank the Examiner for the courtesy of the personal interview on May 13, 1996. The inventor and applicant LeRoy Hagenbuch was present at the interview with his attorney John Conklin. As indicated in the "Examiner Interview Summary Record" (PTOL-1413), which is of record as Paper No. 9, proposed amendments to the claims